Hytera
Respond & Achieve

TC-610P

Analog hand-held radio

Extreme working conditions in a loud and dusty environment, such as on large construction sites, can reduce performance and productivity if your radio transceiver is dirty and the call quality is impaired. The hand-held radio TC-610P is specifically designed for these tasks. Thanks to its robust design and the IP66 protection, this radio transceiver is even suitable for extremely rough operating conditions.

HYT
Two-way Radio

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Radio

TC-610P

Analog hand-held radio

The TC-610P is the ideal hand-held radio for all field applications – at the construction site or in the industry. It transmits in the VHF and UHF range and, in accordance with degree of protection IP66, is protected from dust and water entering the device.

Highlights

Dust-proof and waterproof in accordance with degree of protection IP66
In rough, dusty and humid working environments, such as on construction sites, your radio transceiver must be designed accordingly to ensure a reliable communication. The TC-610P offers you this reliability and a higher productivity under these working conditions. The protection against dust and water in accordance with IP66 allows you to simply wash off dirt under a jet of water.

Robust casing
The TC-610P is manufactured using a double injection moulding process. Thanks to this technology, this hand-held radio is robust and durable and, on top of that, fits perfectly in the hand.

Improved voice quality
The TC-610P features a loudspeaker with a diameter of 45 mm. In addition, this device utilises state-of-the-art processes. They ensure an improved sound quality of your calls, even in loud environments.

High range
The high transmitting power of 5 watt in the UHF range allows high ranges, even over large construction sites and long distances.

Programmable channel spacing of 12.5 kHz / 25 kHz
This feature allows a high degree of flexibility and simple adaptation to modified requirements with respect to the channel spacing, without having to purchase new radio transceivers in this case.

Changing between High Power and Low Power
With the TC-610P, you can toggle between Low Power and High Power with the push of a button, for example, to briefly cover longer distances. A greater range or a lower energy consumption: Both are in your hand.

Functions

- Monitor function
- CTCSS/CDCSS and noise cancellation
- VOX
- Channel scan
- Energy saving mode
- Warning tone for low battery charge state
- Busy channel lockout
- Time-out timer (TOT)
- Programmable via PC
- Line-connected “cloning” function for transferring settings to another radio transceiver
- Selectable squelch levels

LED display for battery charge state
You can activate a three-colour LED display by pressing a single button to display the charge state of the battery.

Reliable battery lock
The hand-held radios of type TC-610P feature the HYT battery lock to securely connect the battery with the radio transceiver.

Dust-proof and waterproof
In accordance with degree of protection IP66 protected against heavy water splashing.

Powerful loudspeaker
The powerful loudspeaker with a diameter of 45 mm guarantees an excellent, clear and distortion-free sound quality – even in loud environments.

Robust casing
The casing of the TC-610P consists of a robust plastic for long durability. Its construction protects the radio transceiver better against damages from being dropped.

Standard accessories

Lithium-ion battery 2000 mAh BL2001

Charging station CH10A03

Belt clip BC12

Hand strap RO04

Mains adapter PS1018

Optional accessories (excerpt)

Lithium-ion battery 2000 mAh BL2001

6-way quick charger MCA02

6-way mains adapter PS7002

Car adapter CHV09

Breast pocket (black) LCBN13

Programming cable (USB/Serial) PC25

Nylon carrier bag NCN001

D-earset with in-line microphone EHN07

Concealed headset (2 cables, black, transparent tube) EAN07

Concealed headset (3 cables, beige, transparent tube) EAN06

Concealed headset with wireless ear-phone and neck loop (beige) EWN03

Concealed headset (3 cables, black, transparent tube) EAN02

Hand-held microphone SM08N1

Receive-only earphone ESS07

The illustrations shown above are only for reference purposes. The products themselves may vary from these representations.

Technical data

General data	
Frequency range	VHF: 136 – 174 MHz UHF: 440 – 470 MHz
Channel capacity	16
Channel spacing	12.5 / 25 kHz
Operating voltage	7.4 V
Standard battery	2000 mAh (lithium-ion battery)
Battery service life (5-5-90 duty cycle)	**approx. 9 hours** (1300 mAh, NiMH battery, optional) **approx. 14 hours** (2000 mAh, lithium-ion battery, included in the scope of delivery)
Frequency stability	± 2.5 ppm
Operating temperature range	- 20 °C to + 55 °C
Antenna impedance	50 Ω
Dimensions (H × W × D) (with standard battery, without antenna)	119 × 55 × 33 mm
Weight (with antenna and standard battery)	275 g
Shock and vibration resistance	MIL-STD-810 C/D/E/F
Protection against dust and moisture	IP66

Transmitter	
Transmitting power	VHF: 2 / 5 W UHF: 2 / 5 W
Modulation	16 KΦF3E / 8 KΦF3E
Interfering signals and harmonics	- 36 dBm (< 1 GHz) - 30 dBm (> 1 GHz)
Signal-to-noise ratio	35 / 40 dB
Nominal audio distortion	≤ 5 %

Receiver	
Sensitivity	0.25 / 0.28 µV
Adjacent channel selectivity	≥ 60 / 70 dB
Intermodulation	≥ 65 dB
Spurious response rejection	≥ 70 dB
Hum and noise	40 / 45 dB
Nominal audio power output	800 mW
Nominal audio distortion	≤ 5 %

All technical indications were tested according to the corresponding standards. Subject to change on the basis of continuous development.

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